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Title: Ion Beam Projects to Address 2017 Walkdown – Assessment of Ion Beam Facility Recommendations to Facilitate Transfer to EM

Author(s): Quintana, Vicente M.
Liechty, Denise Gay

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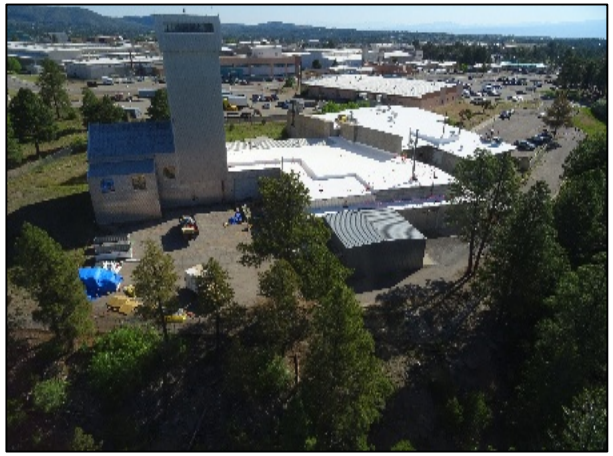
Ion Beam Projects to Address 2017 Walkdown – Assessment of Ion Beam Facility Recommendations to Facilitate Transfer to EM

Roof Life Extension Project $2M (20 year roof)- Completed in FY2019 - funded by Indirect through RAMP

Before Roof Life Extension



After Roof Life Extension

Page 17 2017 Report (“Address the roof in-leakage problem”)

Ion Beam Tank Farm Removal Project $331K Completed FY2019

Tank Farm

Diesel Tank

Before

After

(pg 17 “NNSA should verify the status of the all the tanks in the tank farm. Verify the tanks are empty … prior to transfer.” Page 20 “Inspect and verify Diesel Tank (03-0191) is empty and Isolated.”

Ion Beam Risk Reduction Project $2.2M FY20-FY21

- Project to remove and cap at roof remaining fume hoods, glove boxes and vent stack openings and to seal openings after removal. Completed FY20.
- 2017 Walkdowns, Assessment of Ion Beam Facility Recommendation
  - Page 20 Recommended Action – “Ensure the remaining fume hoods, glove boxes, and vent stack openings have sealed covers to prevent inadvertent wafting of airborne tritium that may result from opening of exterior doors or changes in barometric pressure.”
- The scale and maintenance of the roll up doors.
  - Scale originally scoped within project under the assumption that the scale would be recalibrated and used during project execution. During the execution of the project, the subcontractor brought a scale and the LANL scale was deemed not necessary to use. This is not a recommendation from the 2017 Walkdown report.
  - Both roll up doors underwent maintenance to facilitate the execution of the Risk Reduction Project. Will be maintained as necessary for activities within building if necessary. This is not a recommendation from the 2017 Walkdown report.

First Floor Laboratory Contaminated Hood and Ducting Removal – Room 120

Before

After

Horizontal and Vertical Accelerator Control Panels (First Floor)

Before



After



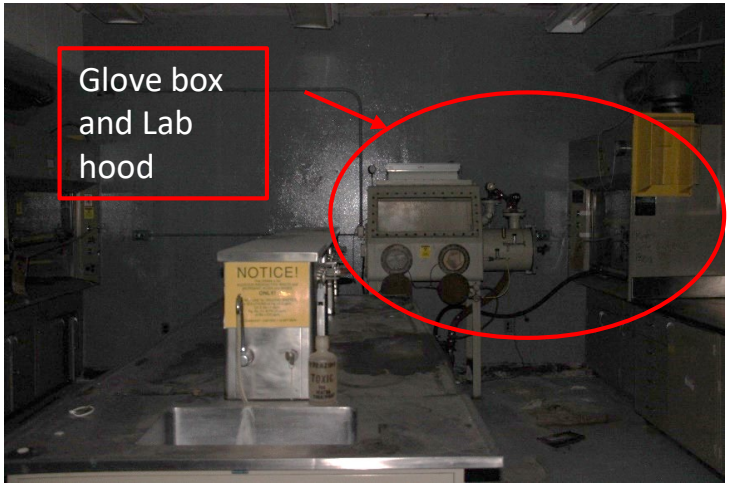
Contaminated Hood and Ducting Removal - Basement

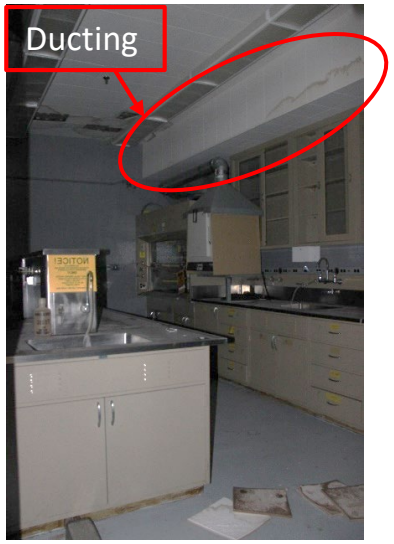
Before

After

Basement Floor Laboratory Hood, Glove Box and Ducting Removal – Room 45

Before



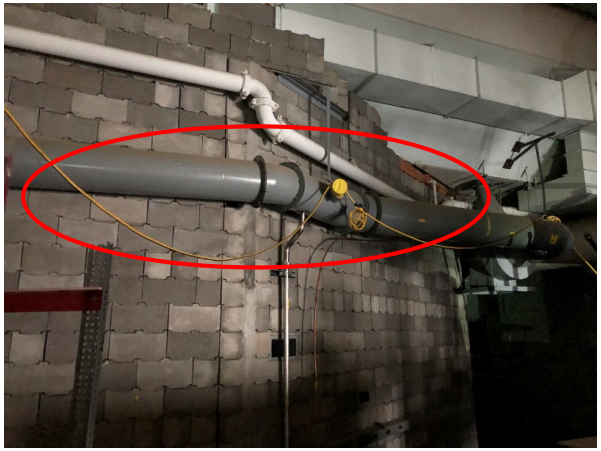


After

Removal of Grinder – Basement Floor –Room 46

Basement Ducting Removal Adjacent to Horizontal Accelerator

Before



After

Additional Items Removed During Risk Reduction

Remaining Actions from 2017 Walkdown report

- NNSA needs to completely disconnect and air gap the RLW system.
  - The air gap will be performed at the main shutoff valve at the time of demolition; the RLW mainline will remain active.

- Additional actions underway in FY21- ~$1M
  - Characterization of facility and class 3 estimate – to be completed by end of FY21.